Dkt. No.: 044487-0133

### **REMARKS**

Applicant would like to thank the Examiner for withdrawing her objection to the addition of paragraphs [0074.1]-[0074.18] to the specification and her objection to the incorporation by reference of the Ausubel et al. reference. Applicant would also like to thank the Examiner for agreeing that the amendment and arguments submitted in the RCE submission have overcome the following rejections: rejection of claims 22-29 and 31-38 under 35 U.S.C. §102(e) as anticipated by Van Ness et al.; rejection of claims 22-29 and 31-38 under 35 U.S.C. 103(a) over Kaneoka et al. and Van Ness et al.; rejection of claim 30 under 35 U.S.C. § 103(a) over Kaneoka et al. and Van Ness et al. and in further view of Nolan et al.; rejection of claims 22-29 and 31-39 under 35 U.S.C. § 103(a) over Armstrong et al. and Van Ness et al.; and rejection of claim 31 under 35 U.S.C. § 103(a) over Kaneoka et al. and Van Ness et al. and further in view of Long.

In the current Office Action, the Examiner has rejected all of the pending claims under new grounds of rejection based on 35 U.S.C. § 112 and 35 U.S.C. § 103(a). Claims 22-39 remain pending in the application. Claim 22 has been amended to include the phrase "to provide perfect sequence homology between the complementary regions of the oligonucleotide and the contiguous sequence of the target oligonucleotide." Support for this amendment can be found in paragraphs [0068]-[0069] of the specification as originally filed.

In view of the claim amendment and the following remarks, applicant respectfully requests reconsideration of the claims and submits that the application is in condition for allowance.

### I. Claim Priority

The Office Action states that the provisional application upon which priority is claimed fails to provide adequate support under 35 U.S.C. § 112 for claims 22-39 of this application. Applicant acknowledges the Examiner's statement regarding priority and accepts the priority date of August 30, 2001, for claims 22-39 of the application. However, applicant reminds the Examiner that if the present claims are amended, the priority date of August 30, 2000, the filing date of the provisional application, may be applicable.

# II. Claim Interpretation

Applicant agrees with the Examiner's interpretation of the limitation "bead set." However, applicant would like to point out that in the Examiner's interpretation, individual beads in a bead set may also be bound to oligonucleotides with variant sequences.

Once again, applicant disagrees with the Examiner's statement that random bases may include "any bases." Using the Examiner's definition would render the claimed methods inoperable. As used in the invention, the random bases of the spacer may include all bases except those bases that are complementary to the target oligonucleotide 5' or 3' of where the oligonucleotide hybridizes with the target oligonucleotide. Thus, the random bases of the spacer may include all bases so long as the claimed methods can be effectively performed.

Furthermore, the use of random bases as all bases except those that are complementary can be supported by the dictionary definition of random, which states that random means "lacking a definite plan, purpose or pattern." MERRIAM WEBSTER'S COLLEGIATE DICTIONARY 966-967 (Tenth Ed. 1997)(copy enclosed).

Applicant agrees with the Examiner's definition of the limitation of claim 32, which reads "fluorescence color ratio incorporated into one or more beads of the bead sets" to mean "fluorescent beads possessing fluorescence dyes with emission spectra at two different wavelengths, which allow measurement of fluorescence ratios for each of the beads."

## III. Claim Rejections

# A. 35 U.S.C. § 112

The Examiner rejected claims 22-39 as amended under 35 U.S.C. § 112 as failing to comply with the written description requirement. The Office Action states that the claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention. Specifically, the Office Action states that the limitation "wherein complementary regions of the oligonucleotides flank the spacer, further wherein the complementary regions of the oligonucleotides hybridize with a contiguous sequence on the target oligonucleotide" is not supported by the disclosure of the instant application. Applicant respectfully traverses.

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That complementary regions of the oligonucleotides flank the spacer and hybridize with a contiguous sequence on the target oligonucleotide is an inherent feature of the oligonucleotides of the present invention. This can be demonstrated by the use of "middle" in the description of the oligonucleotide probes. Specification, paragraph [0069]. As set forth in the definition in the dictionary, "middle" means "being at neither extreme." MERRIAM WEBSTER'S COLLEGIATE DICTIONARY 736 (Tenth Ed. 1997)(copy enclosed). Thus, by using the term middle, it is inherent that the spacer cannot be at either end of the oligonucleotide because the spacer can be at neither extreme.

The oligonucleotide binding to a contiguous sequence on the target oligonucleotide is also an inherent feature of the oligonucleotide probes of the present invention. This is because the "template that hybridized to the oligo coupled beads was selected to provide perfect sequence homology." Specification, paragraph [0068], emphasis added. As the bases in the spacer are random and cannot be homologous to the template, by definition, if the oligonucleotide bases flanking the spacer do not bind to a contiguous sequence on the target, there will be a mismatch and the perfect sequence homology will be destroyed.

As stated in MPEP § 2163.07(a), "by disclosing in a patent application a device that inherently performs a function or has a property, operates according to a theory or has an advantage, a patent application necessarily discloses that function, theory or advantage, even though it says nothing explicit concerning it." In order to establish inherency, "the extrinsic evidence must make clear that the missing descriptive matter is necessarily present in the thing described in the reference and that it would be so recognized by persons of ordinary skill." MPEP § 2163.07(a). Relying on the arguments laid out above, applicant believes it has satisfied that the claim amendments rejected by the Examiner are inherent in the invention. Applicant would be happy to amend the specification (as allowed in MPEP § 2163.07(a)) if the Examiner believes this is warranted. Because the claim amendments filed with the RCE and the current claim amendment are proper and supported by the application as filed, applicant respectfully requests that the Examiner withdraw the 35 U.S.C. § 112 rejection.

# B. 35 U.S.C § 103

# a. Claims 22-31, 33-37 and 39

The Examiner rejected claims 22-31, 33-37 and 39 as unpatentably obvious over Armstrong et al., Van Ness et al., and Lee et al. As stated in the MPEP, to establish a prima facie case of obviousness, "[f]irst, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or combine reference teaching. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations." MPEP § 2143. Applicant respectfully submits that the Examiner has failed to make out a prima facie case because the Examiner has failed to show that there is some suggestion or motivation to combine reference teaching of the cited references.

The Office Action states that "it would have been prima facie obvious to one of ordinary skill in the art at the time of the invention to have used the oligonucleotides with the spacers of Lee et al. in the method of allele detection of Armstrong et al. and Van Ness et al. because "the primers of Lee et al. add extra selectivity to the sequence specific primer method." Contrary to the assertion in the Office Action, the passage cited by the Examiner fails to provide a motivation to combine the primers of Lee et al. with the methods of Armstrong et al.

The cited passage refers to adding extra selectivity to the <u>sequence specific primer method (SSP)</u>. In SSP, the primers of the invention must be able to both hybridize and participate in elongation reactions. The advantages to the primers of Lee et al. as stated in the Lee et al. application and the Office Action include "the number of separate PCR reactions required for assigning an unknown allele may be reduced which reduces the cost of PCR-SSP testing." In contrast, the method of Armstrong et al. is purely based upon hybridization of the probe to a target sequence without production of an extension product in a PCR reaction. The hybridization probes of Armstrong et al. are never used as primers in the polymerase chain reaction. Thus, Lee et al. and Armstrong et al. refer to different types of technology. The skilled artisan would not take the primers of Lee et al. and apply them to the methods of Armstrong et al. because the primers of Lee et al. solve a problem not found in Armstrong et al., namely they add selectivity as primers during a polymerase chain reaction. Therefore, there is no motivation to combine the primers of Lee et al. with the methods of Armstrong et al.

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Similarly, the passage cited by the Examiner does not provide a teaching or suggestion that the Lee et al. and Van Ness et al. references should be combined. As stated above, the primers in Lee et al. provide advantages when used in SSP. In contrast, Van Ness et al. only use probes that anneal to target sequences, not primers that can be elongated and used with the polymerase chain reaction. Further, using the primers of Lee et al. with the compositions and methods of Van Ness et al. would change the principal of operation of the Van Ness et al. reference. As stated in the MPEP, "if proposed modification or combination of the prior art would change the principle of operation of the prior art invention being modified, then the teachings of the references are not sufficient to render the claims prima facie obvious." MPEP § 2143.01

The invention in Van Ness et al. centers around methods to increase the specificity of hybridization of nucleic acids by using oligonucleotides with spacers, where the spacer cannot enter into hydrogen bonding with other bases. Van Ness et al. col. 11, line 49; col. 12, line 35; col. 13, line 20; col. 21, line 7; col. 21, line 21; col. 39, line 21 – col. 43, line 57. As the skilled artisan understands, the oligonucleotides of Lee et al. contain spacers made from natural oligonucleotides capable of hydrogen bonding. Thus, using the primers of Lee et al. with Van Ness et al. would destroy the principle of operation of Van Ness et al. to increase the specificity of hybridization by using oligonucleotides with spacers, where the spacers are not capable of hydrogen bonding.

Based on the arguments above, applicant respectfully submits that there is no suggestion within the references cited or in the Office Action to combine the references of Lee et al., Van Ness et al., and Armstrong et al. Thus, applicant respectfully submits that a prima facie case of obviousness has not been established and requests the Examiner withdraw the rejection and allow the claims to issue.

## b. Claims 32 and 38

In the Office Action, claims 32 and 38 were rejected as obvious over Armstrong et al., Van Ness et al., and Lee et al. in further view of Fulton et al. Applicant respectfully traverses. As set forth above, there is no motivation to combine the Lee et al. and Armstrong et al. references. Further, combining the Lee et al. and Van Ness et al. references would destroy the principle of operation of the Van Ness, et al. invention. Even with the disclosure of the Fulton et

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al. reference, without combining the Lee et al., Armstrong et al. and Van Ness et al. references, the Office Action has failed to provide a combination that teaches each and every limitation of the rejected claims. In light of the lack of establishment of a prima facie case of obviousness, applicant respectfully requests the Examiner withdraw the 35 U.S.C. § 103(a) rejection to claims 32 and 38 and allow the claims to issue.

### **CONCLUSION**

In view of the above remarks, it is respectfully submitted that this application is in condition for allowance and early notice to that effect is earnestly solicited. The Examiner is invited to telephone the undersigned at the number listed below if the Examiner believes such would be helpful in advancing the application to issue.

Respectfully submitted,

Date December 28, 2004

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Facsimile: (60

(608) 258-4258

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Attorney for Applicant Registration No. 55,089

736

mi-cro-pro-ces-sor \mi-krō-'prā-,se-sər, -'prō-\ n (1970): a computer processor contained on an integrated-circuit chip; also: such a processor with memory and associated circuits mi-cro-pro-gram \-'prō-gram, -gram\ n (1953): a routine composed of microinstructions used in microprogramming mi-tro-pro-gram-ming \-'gra-min\ n (1953): the use of routines stored in methory rather than specialized circuits to control a device (as a computer)

stored in memory rather than specialized circuits to control a device (as a computer)

mi-cro-pro-jec-tor \-pro-'jek-tor\ n (1927): a projector utilizing a compound microscope for projecting on a screen a greatly enlarged image of a microscope for projecting on a screen a greatly enlarged image of a microscope for projecting on a screen a greatly enlarged image of a microscope to bject — mi-cro-pro-jec-tion \-'jek-shan\ n mi-cro-pub-lish-ing \-'po-bli-ship\ n (1966): publishing in microform — mi-cro-pub-lish-er \-bli-shor\ n (1949): a pulsation having a short period (a ~ of the earth's magnetic field with a period in the range from a fraction of a second to several hundred seconds)

mi-cro-punc-ture \-'pon(k)-char\ n (1948): an extremely small puncture (as of a nephron): also: an act of making a micropuncture mi-cro-py-le \-'mi-kro-pil\ n [F, fr. micr- + Gk pple gate] (1821) 1: a minute opening in the integument of an ovule of a seed plant 2: a differentiated area of surface in an egg through which a sperm enters — mi-cro-py-lar\,mi-kro-pil-lar\ adj mi-cro-quake \-'mi-kro-pil-lar\ adj mi-cro-ra-di-og-ra-phy \-'mi-kro-ra-de-agra-f\ n (1913): radiogra-phy in which an X-ray photograph is prepared showing minute internal structure — mi-cro-ra-di-og-ra-ph\ (n 1949): an apparatus that gives an enlarged image of a microphotograph esp. for reading mi-cro-re-pro-duc-tion \-'mi-kro-ra-do-spra-do-shan\ n (1938): the reproduction of written or printed matter in microform; also: an item so reproduced \-'mi-kro-ra-kal\ n (1931): a very small scale

mi-cro-scale \mi-kro-skāl\ n (1931): a very small scale mi-cro-scope \mi-kro-skāl\ n (1931): a very small scale mi-cro-scope \mi-kro-skōp\ n [NL microscopium. fr. micr-+scopium scope] (1654) 1: an optical instrument consisting of a lens or combination of lenses for making enlarged images of minute objects; esp: COMPOUND MICROSCOPE—2: an instrument using radiations other than light or using vibrations for making enlarged images of minute objects (acoustic \simple )

esp: COMPOUND MICROSCOPE—2:: an instrument using radiations other—than light or using vibrations for making enlarged images of minute objects (acoustic ~>> mi-cro-scop-ic \mi-kra-'skā-pik\ or. mi-cro-scop-ical \-pi-kəl\ adj (1732) 1: resembling a microscope esp. in perception 2 a: invisible or indistinguishable without the use of a microscope b: very small or fine or precise 3:: of, relating to, or conducted with the microscope or microscopy mi-kra-ka-pē\ n (ca. 1665): the use of or investigation with the microscope or microscopy—mi-cro-scop-ical-ly\ p-in-k(a)-lè\ adv mi-cro-sco-opy \mi-kra-ka-pē\ n (ca. 1665): the use of or investigation with the microscope—mi-cro-op-ical-ly\ p-in-k(a)-lè\ adv mi-cro-sec-ond \-\mi-kro-se-kond, \-ksnt\ n [ISV] (1906): one millionth of a second \-\mi-kro-se-kond, \-ksnt\ n [ISV] (1906): one millionth of a second \-\mi-kro-se-kond, \-ksnt\ n [ISV] (1906): one millionth of a second \-\mi-kro-se-kond, \-ksnt\ n [ISV] (1906): one millionth of a second \-\mi-kro-se-kond, \-ksnt\ n [ISV] (1906): one millionth of a second \-\mi-kro-se-kond, \-ksnt\ n [ISV] (1906): one millionth of a second \-\mi-kro-se-kond, \-ksnt\ n [ISV] (1906): one millionth of a second \-\mi-kro-se-kond, \-ksnt\ n [ISV] (1906): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1906): one millionth of a second \-\mi-kro-sem\ n [IGV] (1906): one millionth of a second \-\mi-kro-sem\ n [IGV] (1906): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one millionth of a second \-\mi-kro-sem\ n [IGV] (1806): one

micro-sporro-gen-esis \mi-kra-spōr-a-'jo-na-sas, spor-\ n [NL] (1921): the formation and maturation of microspores micro-spo-ro-phyll \-fii\ n (ca. 1890): a sporophyl! that develops

only microsporangia
mi-cro-state \mi-kro-stat\ n (1962): a nation that is extremely small

only microsporangia micro-state \mi-krō-stāt\ n (1962): a nation that is extremely small in area and population mi-cro-struc-ture \mi-krō-struk-chər\ n [ISV] (1885): the micro-scopic structure of a material (as a mineral or a biological cell) — mi-cro-struc-ture \mi-krō-struk-chərlə, "struk-shral\ adj mi-cro-struc-tural \mi-krō-struk-chə-rəl, "struk-shral\ adj mi-cro-struc-tur-al \mi-krō-struk-chə-rəl, "struk-shral\ adj mi-cro-struc-tur-al \mi-krō-struk-chə-rəl, "struk-shral\ adj mi-cro-struc-tur-al \mi-krō-struk-chə-rəl, "struk-shral\ adj mi-cro-switch \mi-krō-struk-nə-sur-gi-cal \mi-sar-ji-kəl\ adj mi-cro-switch \mi-krō-struk-nə-sur-gi-cal \mi-sar-ji-kəl\ adj mi-cro-switch \mi-krō-struk-nə-sur-gi-cal \mi-sar-ji-kəl\ adj mi-cro-tech-nic \mi-kra-struk-nə-sur-gi-cal \mi-sar-sur-tech-nic \mi-kra-struk-nə-sur-gi-cal \mi-sar-sur-tech-ni-sur-gi-cal \mi-sar-sur-tech-n

mi-cro-vil-lus \-'vi-las\ n [NL] (1953): a microscopic Projection of tissue, cell, or cell organelle; esp: any of the fingerlike outward projections of some cell surfaces — mi-cro-vil-lar \-'vi-lar\ adj — micro-vil-lar \-'vi-lar\ adj — micro-vil-lar\ ad

tions of some cell surfaces — mi-cro-vil-lar \-vi-lər\ adj — mi-cro-vil-lous \-vi-ləs\ adj — mi-cro-vil-lous \-vi-ləs\ adj — mi-cro-vil-lous \-vi-ləs\ adj — mi-cro-vil-ləs\ adj

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mik-to-\n

mid \mid\ adj [ME, fr. OE midde; akin to OHG mitti middle, I medius, Gk mesos] (bef. 12c) 1: being the part in the middle or middius, Gk mesos] (or occan) — often used in combination (mid-August) 2: occupying a middle position (the offinger) 3 of a vowel: articulated with the arch of the tongue midway between its highest and its lowest elevation.

arch of the tongue midway between its nignest and its lowest elevation—mid adv
mid prep (1808): AMID
mid-air \mid-ar. -et\ n (1667): a point or region in the air not immodiately adjacent to the ground (planes collided in ~)
Mi-das \mid-as\ n [L, fr. Gk]: a legendary Phrygian king who all given the power of turning everything he touches to gold
Midas touch n (1883): an uncanny ability for making money in everything

venture mid-brain \'mid-brain\' n (1875): the middle of the three primary mid-brain \mid-brain \n (1875): the middle of the three primary divisions of the developing vertebrate brain or the corresponding part of the adult brain — called also mesencephalon; see BRAIN illustration: mid-course \lambda-\kappa\vec{k\vec{o}}\sigma\vec{c}\sigma

day

mid-den \'mi-d'n\ n [ME midding, of Scand origin; akin to ON mymidden \'mi-d'n\ n [ME midding, of Scand origin; akin to ON mymiddung & ON dyngja manure pile — more at DUNG] (14c) 1: DUNGMI

2 a : a refuse heap; esp : KITCHEN MIDDEN b : a small pile (as of seeds, bones, or leaves) gathered by a rodent (as a pack rat)

climid-dlen\'mi-d'l\ adj [ME middel, fr. OE; akin to OE midde] (bef. 12c)

1: equally distant from the extremes : MEDIAL CENTRAL (the ~ house in the row) /2. "being at-reither-extreme: -!NITEMEDIATESTS asp a. : constituting a division-intermediate-between those prior and later or upper and lower (Middle Paleozoic) b : constituting a period of a language or literature intermediate between one called Old and one called New or Modern (Middle Dutch) 4 of a verb form or voice: typically asserting that a person or thing both performs and is affected by cally asserting that a person or thing both performs and is affected by the action represented

amiddle n (bef. 12c) 1: a middle part, point, or position 2: the manual part of the action represented.

the action represented 2middle n (bef. 12c) 1: a middle part, point, or position 2: theory tral portion of the human body: WAIST 3: the position of being among or in the midst of something 4: something intermediate between extremes: MEAN 5: the center of an offensive or defensive for middle age n (14c): the period of life from about 40 to about 60-middle—aged \middle—aged \middle age n (14c): the period of life from about 40 to about 60-middle—aged \middle—aged \middle—aged \middle—aged hiddle—aged \middle—aged hiddle—aged \middle—aged \middle—aged hiddle—aged \middle—aged hiddle—aged \middle—aged hiddle—aged \middle—aged \middle—aged \middle—aged \middle—aged \middle—aged \middle \mid

Middle Ages n pl (1616): the period of European history from about AD. 500 to about 1500

Middle America n (1898) 1: the region of the western hemispher including Mexico, Central America, often the West Indies, and some times Colombia and Venezuela 2: the midwestern section of the US. 703: the middle class segment of the U.S. population; esp: the traditional or conservative element of the middle class — middle American n middle-brow \(\text{Imid}\) middle American n middle-brow \(\text{Imid}\) middle American n middle-brow \(\text{Imid}\) middle Prow \(\text{Imid}\) middle Prow \(\text{Imid}\) middle Prow \(\text{Imid}\) but not highly cultivated — middlebrow adj middle—class \(\text{Imid}\) middle—class \(\text{Imid}\) in the treble staff and the first above the bass staff middle—class \(\text{Imid}\) middle class \(\text{Imid}\) in the treble staff and the first above the bass staff middle—class \(\text{Imid}\) middle class \(\text{Imid}\) in (1925): a person who is moderated the treble staff and the first above the bass staff middle—class \(\text{Imid}\) middle class \(\text{Imid}\) in (1925): a person who is moderated the treble staff and the first above the bass staff middle—class \(\text{Imid}\) middle—class \(\text{Imid}\) in (1766): a class occupying a position between the middle class and the lower class; esp: a fluid heterogeneous socioeconomy grouping composed principally of business and professional peoul by bureaucrats, and some farmers and skilled workers sharing common a social characteristics and values middle distance \(\text{Imid}\) (1830): the Dutch language in use from social characteristics and values middle distance \(\text{Imid}\) (1830): the Dutch language in use from social characteristics and middle middle—class \(\text{Imid}\) (1830): the Dutch language in use from social characteristics and middle middle—class \(\text{Imid}\) (1830): the English in use from social characteristics and the partition between the middle and inner social characteristics and the partition between the middl

centuries — see INDO-EUROPEAN LANGUAGES table conturies — see INDO-EUROPEAN LANGUAGES table middle finger n (bef. 12c): the midmost of the five digits of the mod Middle French n (1889): the French in use from the 14th to 10 mos

centuries — see INDo-EUROPEAN LANGUAGES table middle game n (1894): the middle phase of a board game; specification of a chess game after the pieces have been developed when plantempt to gain and exploit positional and material superiority—gare ENDOAME, OPENING NDGAME OPENIN

pare ENDGAME OPENING Middle Greek n (1889): the Greek language used in the 7th to middle ground n (1801) 1: a standpoint midway between extra

2: MIDDLE DISTANCE | Middle High German in use from 1

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auN (1561): a haphazard course — at random: without definite sim direction, rule, or method andomized (1565)—1-ai:elacking a definite plan, purpose, or pattern francom (read ~ passages from the book) 1 a: relating to, having, or being elements or events with definite probability of occurrence (~ processes) b: being or relating to a set of occurrence (a ~ sample); also: characterized by procedures designed to obtain such sets or elements (~ sampling) — ran-dom-ly the ran-dom-ness n

ign - ran-dom-ness - ran-dom-nes

indum-access to stored data in any indum-access to stored data in any indum-access memory n (1955): a computer memory that products the main internal storage available to the user for programs and that — called also RAM; compare READ-ONLY MEMORY madom-ize 'tran-da-,miz', v-ized; 'iz-ing (1926): to select, assign, or arrange in a random way — ran-dom-iza-tion \,\ran-da-ma-'zā-tandomized block n (ca. 1942): an experimental design (as in hortifalture) in which different-treatments are distributed in: random order—indom variable n (1949): a variable that is itself a function of the field of a statistical experiment in which each outcome has a definite indom walk n (1941): a process (as Brownian motion or genetic field) consisting of a sequence of steps (as movements or changes in the frequency) each of whose characteristics (as magnitude and directional 'tran-de' adj [prob. fr. obs. rand to rant] (1698) 1 chiefly Sections). andy \ran-de\ adj [prob. fr. obs. rand to rant] (1698) 1 chiefly Scot

having a coarse manner 2: LUSTFUL LECHEROUS tandy n, pl rand-ies (1762) chiefly Scot: a scolding or dissolute

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structure of the struct

(ān-je\ adj rang-i-er; -est (1868) 1: able to range for consid-listances 2 a: long-limbed and long-bodied (~ cattle)

: being tall and slender 3: having room for ranging 4: having great

scope — rangel-ness n rani or ra-nee 'rā-nē, 'rā-nē\ n [Hindi rāni, fr. Skt rājnī, fem: of rājan king — more at Royal (1673): a Hindu queen: a rajah's wife ra-nid \'ra-nad, 'rā-\ n [ultim. fr. L rana frog] (ca. 1934): any of a large family (Ranidae) of frogs distinguished by slightly dilated transverse family (Ranidae sacral processes

family (Tanidae) of frogs distinguished by slightly dilated transverse sacral processes | rank \tank \

tion to others
rank and file n (1598) 1: the enlisted personnel of an armed force 2: the individuals who constitute the body of an organization, society, or nation as distinguished from the leaders — rank—and—file \rankn-fil\ adj — rank and filer \-fi-lər\ n
rank correlation n (1907): a measure of correlation depending on

rank-er \'ran-kər\ n (1878): one who serves or has served in the ranks;

ranker \ ran-ker\ n (10/8): one who serves or has served in the ranks; esp: a commissioned officer promoted from the ranks Ran-kine \ ran-ken\ adj [William J. M. Rankine †1872 Scot. engineer & physicist] (ca. 1926): being, according to, or relating to an absolute temperature scale on which the unit of measurement equals a Fahren-heit degree and on which the fragging points of make is All C7 and the temperature scale on which the unit of measurement equals a Fahrenheit degree and on which the freezing point of water is 491.67 and the boiling point 671.67 rank-ing adj (1862): having a high position: as a: FOREMOST (~poet) b: being next to the chairman in seniority (~committee member)

ber)
ran-kle \'ran-kol\ vb ran-kled; ran-kling \-\k(\tilde{\tilde

ran-sack \'ran-sak, (,)ran-\ vt [ME ransaken, fr. ON rannsaka, fr. rann ranisack (ranisack, (ranisack), tr. rann house + saka (akin to OE sēcan to seek) — more at Seek] (13c) 1 a : to search thoroughly b: to examine closely and carefully 2: to search through to commit robbery: PLUNDER — ranisacker n lanisacker n (ranisack) — more at REDEMPTION] (13c) 1: a consideration paid or demanded for the release of someone or something from captivity 2: the act of ransomine

ity 2: the act of ransoming

ransom w (14c) 1: to deliver esp. from sin or its penalty 2: to free
from captivity or punishment by paying a price syn see RESCUE —

rant \rant \ vb [obs. D ranten, randen] vi (1602) 1: to talk in a noisy, Tank (Validos, Dranten, randen) in 11002, 1... to task in a 11013 excited, or declamatory manner 2: to scold vehemently  $\sim v$ : to utter in a bombastic declamatory fashion — ranter n — ranting-ly \'ran-tin-le\ adv 2rant n (1649) 1

Vran-tip-lev adv rant n (1649) 1 a: a bombastic extravagant speech b: bombastic extravagant language 2 dial Brit: a rousing good time ran-u-la \ran-y-o-la\ n [NL, fr. L, swelling on the tongue of cattle, fr. dim. of rana frog] (15c): a cyst formed under the tongue by obstrucran-u-la \'ran-yə-lə\

dim. of rana frog] (15c): a cyst formed under the tongue by obstruction of a gland duct ranunculus \ranunculus \ra

sentence

2 rap by rapped; rap-ping v (14c) 1: to strike with a sharp blow 2

: to utter suddenly and forcibly 3: to cause to be or come by raps (~

the meeting to order) 4: to criticize sharply ~ vi 1: to strike a
quick sharp blow 2: to make a short sharp sound

rap vi rapped also rapt \( rapt\); rap-ping [back-formation fr. rapi]

(1528) 1: to snatch away or upward 2: ENRAPTURE

rap n [perh. fr. \( rap\)] (1834): a minimum amount or degree (as of care

or consideration): the least bit (doesn't care a ~)

rap wi rapped; rap-ping [perh. fr. \( rap\)] (1929) 1: to talk freely and

frankly 2: to perform rap music

\ə\ abut \angle^\ kitten, F table \ər\ further \a\ ash \ā\ ace \ä\ mop, mar \au\ out \ch\ chin \e\ bet \e\ easy \g\ go \i\ hit \i\ ice \i\ job

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